

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 - 5 are now canceled.

Claim 6 (previously allowed): A vehicle detector and classifier comprising:
a plurality of electrically conductive loops arranged in a line in a slot cut into a surface of a road, wherein said loops are arranged substantially in a plane perpendicular to the road surface, thereby defining an axis of each said loop extending substantially parallel to the road surface;

wherein at least one active electronic component is located in the slot and adjacent to at least one said loop;

wherein the components are mounted on circuits at regular intervals, said circuits comprising one of a small hybrid circuit and a thick film circuit.

Claim 7 (currently amended): A detector according to claim 46, wherein the at least one loop is encapsulated in a semi-rigid enclosure.

Claim 8 (currently amended): A detector according to claim 46, wherein said at least one loop is substantially rectangular as viewed along the axis.

Claim 9 (currently amended): A detector according to claim 46, wherein said at least one loop comprises a plurality of turns.

Claim 10 (currently amended): A detector according to claim 46, further comprising an inductive loop arranged substantially along a plane of the road surface, thereby defining an axis of the inductive loop extending substantially perpendicular to the road surface.

Claim 11 (previously allowed): A vehicle detector and classifier comprising:
at least one electrically conductive loop arranged in a road having a road surface, wherein said at least one loop is arranged substantially in a plane perpendicular to the road surface, thereby defining an axis of the loop extending substantially parallel to the road surface;

further comprising an inductive loop arranged substantially along a plane of the road surface, thereby defining an axis of the inductive loop extending substantially perpendicular to the road surface; and,

further comprising means for superposing a result obtained from the at least one loop arranged substantially along the plane of the road surface and a result obtained from the at least one loop arranged substantially in the plane perpendicular to the road surface, and means for displaying the results as thereby superposed.